Fig. 1

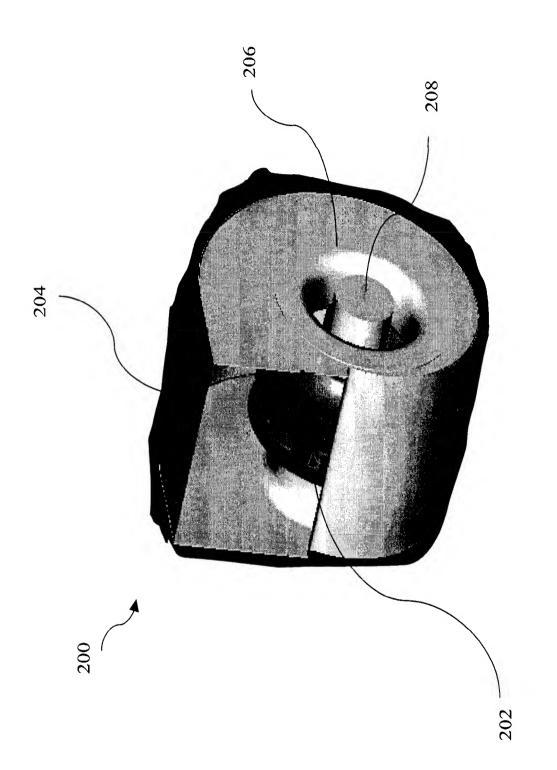
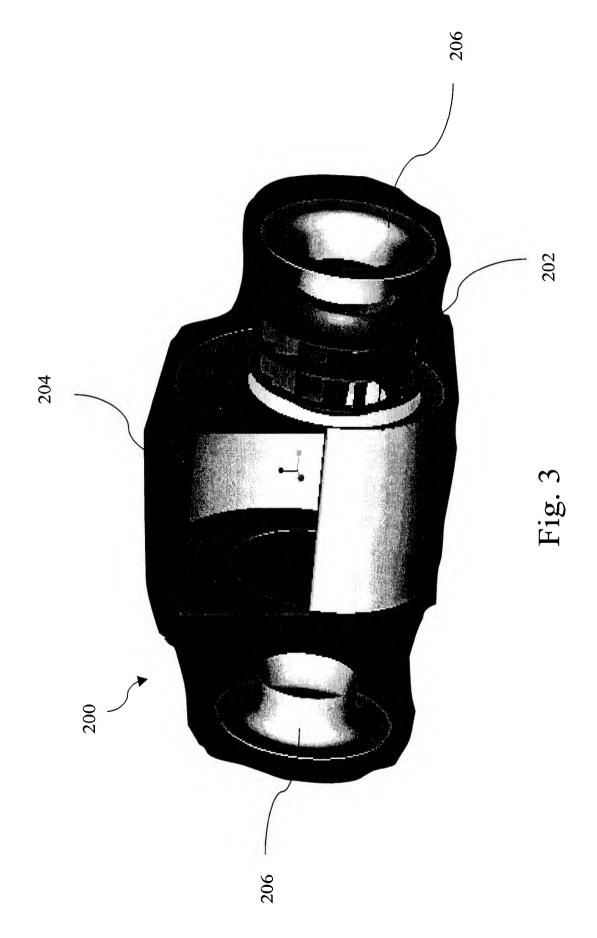


Fig. 2



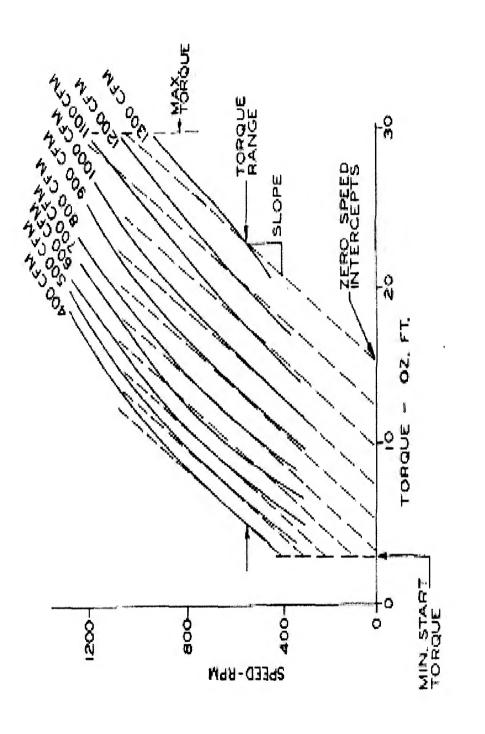


Fig. 4

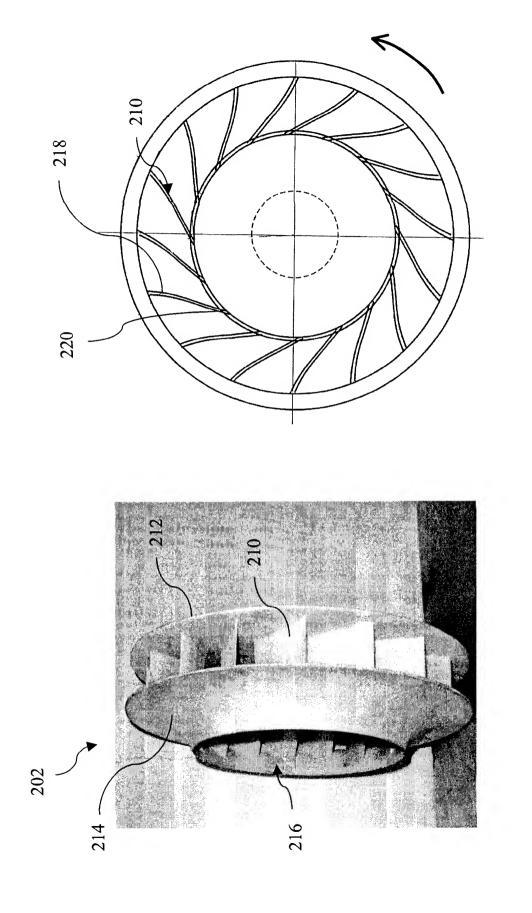


Fig. 5

Fig. 6

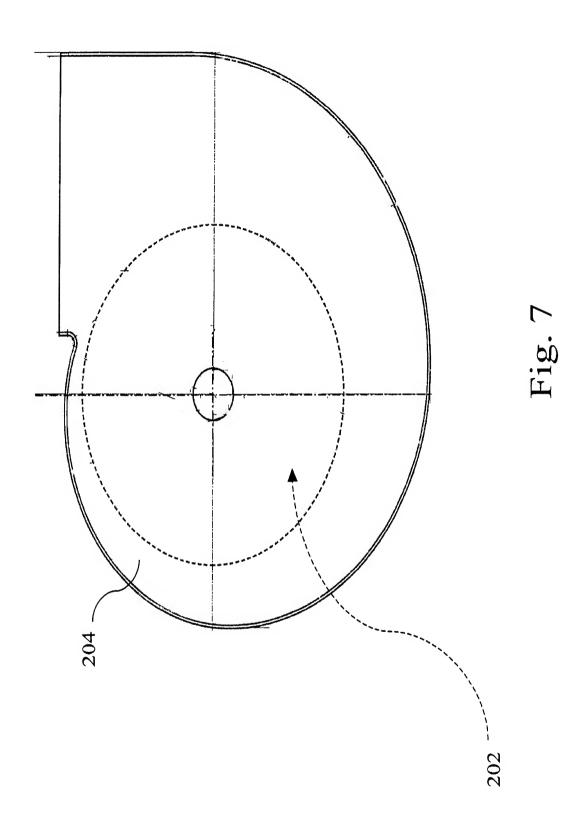


Fig. 8

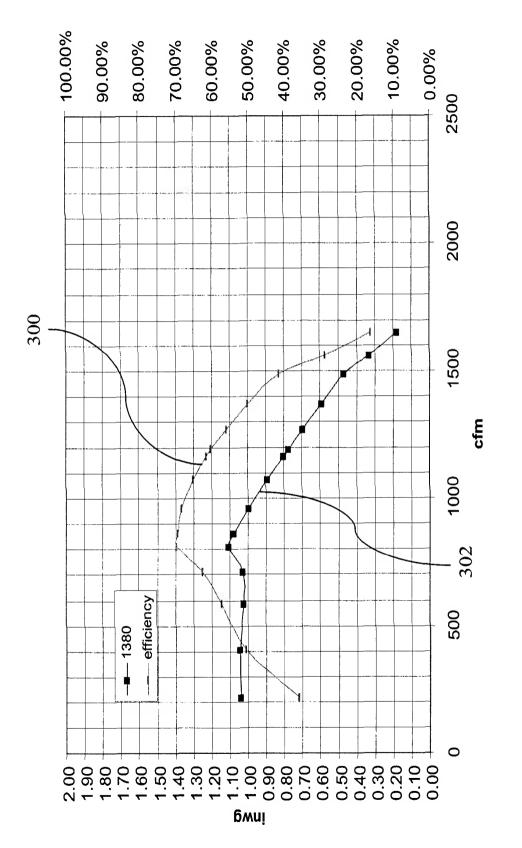


Fig. 9

2.0 6. 1.6 4.1 Torque [N-m] 1.2 1.0 0.8 -- 1000 cfm 1100 cfm →- 1200 cfm →- 800 cfm → 900 cfm 9.0 0.4 0.2 18001 1600 Speed [rpm] 1000 909 1400 800 2.5 2 N-m 1.5 0.5 1200cfm -- 1000cfm 1100cfm *- 1300cfm -- 1400cfm - 900cfm 200 2500 2300 ւ**թ**ու 1100 006 2100 1900 1700 1300 200

S-shaped Blade

Traditional Backward Blade

Fig. 11

Fig. 10 – prior art